IN THE CLAIMS:

The following claim listing is meant to replace all previous claim listings.

- 1. (Previously Presented): A process for producing branched fatty acids, comprising:
 - a. introducing a recombinant nucleic acid coding for a cyclopropane fatty acid synthase into a plant cell, a plant tissue or a seed of a plant;
 - regenerating a transgenic plant from the plant cell, the plant tissue or the seed of the plant wherein said transgenic plant produces branched fatty acids; and
 - c. recovering said branched fatty acids from said transgenic plant.
- 2. (Previously Presented): The process according to claim 1, further comprising the step of extracting the branched fatty acids.
- 3 11. (Cancelled).
- 12. (Currently Amended): A recombinant nucleic acid comprising in the following order:
 - a. a plant expressible promoter selected from the group consisting of a nopaline synthase promoter (nos), an octopine synthase promoter (ocp), a mannopine promoter, a agropine promoter, a napine promoter and an acyl carrier protein promoter (ACP);

b

- <u>b</u>. e.a nucleic acid coding for a cyclopropane fatty acid synthase; and <u>c</u>. e a 3' transcription termination sequence.
- 13. (Previously Presented): The nucleic acid according to Claim 12, wherein the promoter expresses the nucleic acid in a seed of a plant.
- 14 16 (Cancelled).

- 17. (Previously Presented): A vector comprising a recombinant nucleic acid according to Claim 12.
- 18. (Previously Presented): A plant cell comprising a recombinant nucleic acid according to Claim 12.
- 19. (Cancelled).
- 20. (Previously Presented): A transgenic plant comprising at least one cell according to claim 18.
- 21. (Currently Amended): A transgenic plant comprising at least in one part of its cells, a nucleic acid according to Claim 12.
- 22. (Cancelled).
- 23. (Currently Amended): A process for preparing branched fatty acids from a transgenic plant whose cells contain a recombinant nucleic acid according to Claim 12, comprising:

culturing said transgenic plant in <u>a</u> field; recovering the seeds from said transgenic plant; and extracting the branched fatty acids from these seeds.

- 24 29 (Cancelled).
- 30. (Previously Presented): The plant cell according to Claim 18, wherein said plant cell is colza, sunflower, peanut, soya, flax or maize.
- 31. (Currently Amended): A The process according to Claim 1, further comprising the steps of: for producing branched fatty acids, comprising: introducing a recombinant nucleic acid coding for a cyclopropane fatty acid synthase into a plant cell;

culturing said plant cell in a medium suitable for growth; and

extracting and purifying the branched fatty acids from said plant cell or from the supernatant of said medium.

32. (Cancelled)

33. (Previously Presented): The nucleic acid according to Claim 12, wherein the plant expressible promoter is an acyl carrier protein promoter (ACP) or a napine promoter.

34. (Cancelled)

- 35. (Withdrawn): A process for producing branched fatty acids, comprising:
 - a. introducing a recombinant nucleic acid coding for a S-adenosylmethionine that catalyzes the transfer of a methyl group to an aliphatic chain of an unsaturated fatty acid into a plant cell, a plant tissue or a seed of a plant;
 - a. regenerating a transgenic plant from the plant cell, the plant tissue or the seed of the plant wherein said transgenic plant produces branched fatty acids; and
 - b. recovering said branched fatty acids from said transgenic plant.
- 36. (Withdrawn): A recombinant nucleic acid comprising in the following order:
 - a plant expressible promoter that regulates the expression of a nucleic acid coding for a S-adenosyl methionine that catalyzes the transfer of a methyl group to an aliphatic chain of an unsaturated fatty acid;
 - b. a nucleic acid coding for said S-adenosyl methionine; and
 - c. a 3' transcription termination sequence.
- 37. (Previously Presented): A process for producing branched fatty acids, comprising:
 - a. introducing a recombinant nucleic acid coding for a cyclopropane fatty acid synthase into a tobacco cell, a tobacco tissue or a tobacco seed;

b. regenerating a transgenic plant from the tobacco cell, the tobacco tissue or the tobacco seed, wherein said transgenic plant produces branched fatty acids; and

c. recovering said branched fatty acids from said transgenic plant.